## **UV Cure Coatings**

ESTCP Project Numbers: WP-0801 and WP-0804

POC: Russell McLaughlin, (321-867-3351) russell.l.mclaughlin@nasa.gov Pattie Lewis Burford (321-867-9163) pattie.l.lewis@nasa.gov

## Background

Temperature sensitive substrates such as aluminum and magnesium are used in the manufacture and sustainment of aerospace systems and ground support equipment.

# **Objective**

To demonstrate/validate VOC/HAP free UV Curable coatings to replace solvent-borne organic coatings and the use of robotics in curing process.

## Period of Performance

March 2008 to March 2012

## Stakeholders

Air Force (Project Lead: Air Force Research Lab), Navy, Coast Guard, and NASA monitoring

#### Benefits

- Elimination of Volatile Organics Compounds (VOCs)
- Elimination of Hazardous Air Pollutants (HAPs)
- Reduction/elimination of hazardous waste
- Improved process efficiencies (shorter cycle time, reduced energy consumption)
- Improved transfer efficiencies

# **Document Status**

• Joint Test Protocol - Complete

## Recent Progress

- Ordered powder and substrates October 2008
- Briefed WP-0801 at C3P/NASA International Workshop November 2008
- Reported to Environmental Security Technology Certification Program on first year progress

  December 2008

## <u>Milestones</u>

- Completed joint test protocol September 2008
- Acquire robot

#### Near-Term Goals

Begin validation testing.

Updated 12/31/08